

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Tetsuo YAZAWA et al. : **Mail Stop: PCT**
Serial No. NEW : Attorney Docket No. 2006_1564A
Filed September 15, 2006 :

NOVEL PHOTOCATALYST AND METHOD
FOR PRODUCING SAME
[Corresponding to PCT/JP2005/004369
Filed March 11, 2005]

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☐ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/_____;
and/or
- ☐ each reference previously cited in prior parent application Serial No.
_____.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the
above-entitled application, or

ATTACHMENT "C" }

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

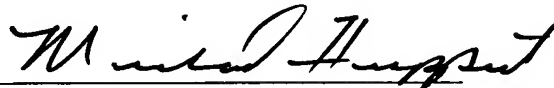
a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☒ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☒ the concise explanation contained in the specification of the present application at pages 1-2,
 - d. ☒ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Tetsuo YAZAWA et al.

By 

Michael S. Huppert
Registration No. 40,268 *for*
Matthew M. Jacob
Registration No. 25,154
Attorney for Applicants

MSH/MJ/kjf
Washington, D.C. 20006-1021
Telephone (202) 721-8200
Facsimile (202) 721-8250
September 15, 2006

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: September 15, 2006

ATTY DOCKET NO.
2006_1564ASERIAL NO.
NEW

10/593249

APPLICANT
Tetsuo YAZAWA et al.FILING DATE
September 15, 2006

GROUP

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|--------------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|--|----|--------------------|---------|---------|-------|----------|-----------------------|
| | AD | 2001-276194 | 10/2001 | JP | | | Abstract |
| | AE | 2003-265966 | 9/2003 | JP | | | Abstract |
| | AF | 2003-340289 | 12/2003 | JP | | | Abstract |
| | AG | 2001-239164 | 9/2001 | JP | | | Abstract |
| | AH | 10-310401 | 11/1998 | JP | | | Abstract |
| | AI | 2001-157843 | 6/2001 | JP | | | Abstract |
| | AJ | 2004-290747 | 10/2004 | JP | | | Abstract |
| | AK | 2004-290748 | 10/2004 | JP | | | Abstract |

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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| AL | FENG, Jiyun et al., "Novel Bentonite Clay-Based Fe-Nanocomposite as a Heterogeneous Catalyst for Photo-Fenton Discoloration and Mineralization of Orange II", Environ.Sci.Technol., January 2004, vol. 38, no. 1, pages 269-275. |
| AM | Yuichi Ichihashi et al., "Formation of Ethylene Oxide by Photooxidation of Ethylene over Silica Modified with Copper", Studies in Surface Science and Catalysts (2000), vol. 130, pages 1995-1960. |
| AN | Hisao Yoshida et al., "Epoxidation of Propene by Gaseous Oxygen over Silica and Mg-Loaded Silica under Photoirradiation", Journal of Catalysts (1997), vol. 171, pages 351-357. |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.